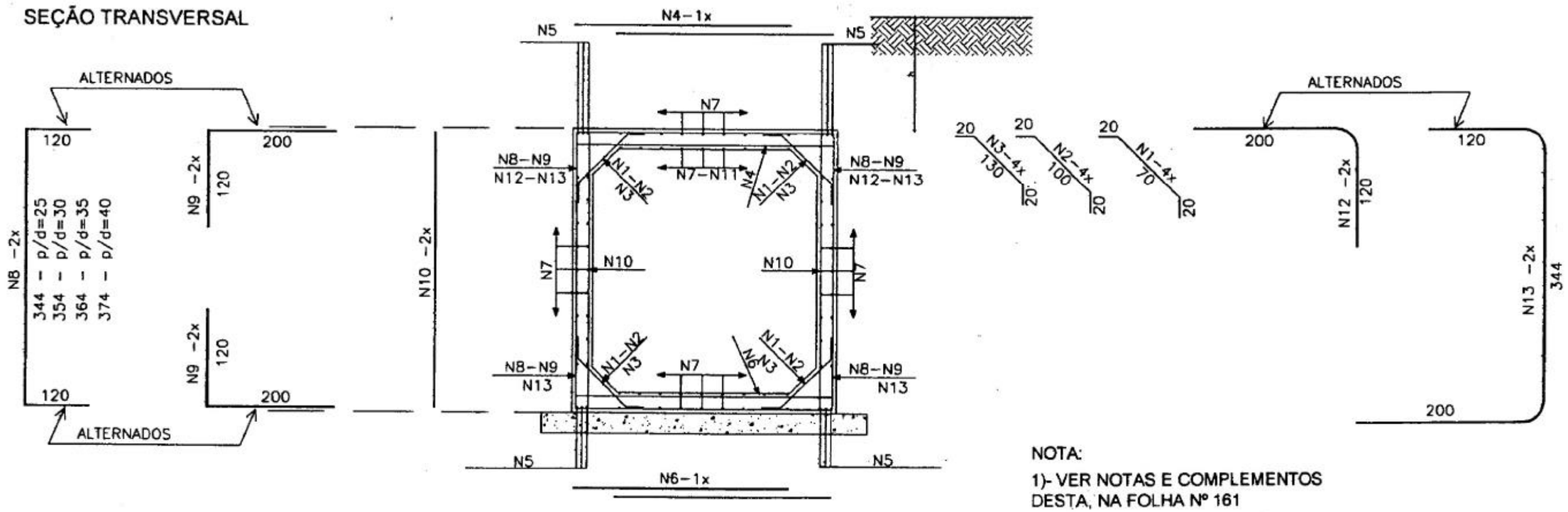
TABELA DE ARMADURAS (POR METRO DE GALERIA)

0 ≤ h ≤ 100					100 ≤ h ≤ 250					250 ≤ h ≤ 500					500 ≤ h ≤ 750				
$\bar{f}s \geq 0,20$ MPa					$\bar{f}s \geq 0,15$ MPa					$\bar{f}s \geq 0,15$ MPa					$\bar{f}s > 0,20$ MPa				
N	Ø	Q	COMP	ESP.	N	Ø	Q	COMP	ESP.	N	Ø	Q	COMP	ESP.	N	Ø	Q	COMP	ESP.
1	—	—	—	—	1	—	—	—	—	1	—	—	—	—	1	—	—	—	—
2	8,0	16	140	c/25	2	8,0	16	140	c/25	2	8,0	16	140	c/25	2	8,0	20	140	c/25
3	—	—	—	—	3	—	—	—	—	3	—	—	—	—	3	—	—	—	—
4	16,0	8	310	c/12	4	12,5	9	310	c/11	4	12,5	9	310	c/11	4	16,0	8	310	c/12
5	16,0	12	CORR	—	5	16,0	12	CORR	—	5	16,0	12	CORR	—	5	16,0	12	CORR	—
6	16,0	9	310	c/11	6	12,5	10	310	c/10	6	12,5	10	310	c/10	6	16,0	9	310	c/11
7	8,0	112	CORR	c/20	7	8,0	88	CORR	c/25	7	8,0	88	CORR	c/25	7	8,0	112	CORR	c/20
8	12,5	10	594	c/22	8	12,5	8	594	c/30	8	12,5	8	594	c/30	8	12,5	10	594	c/22
9	12,5	20	320	c/22	9	12,5	16	320	c/30	9	12,5	16	320	c/30	9	12,5	20	320	c/22
10	8,0	10	355	c/20	10	8,0	10	355	c/20	10	8,0	10	355	c/20	10	8,0	10	355	c/20
11	—	—	—	—	11	—	—	—	—	11	—	—	—	—	11	—	—	—	—
12	—	—	—	—	12	—	—	—	—	12	—	—	—	—	12	—	—	—	—
13	—	—	—	—	13	—	—	—	—	13	—	—	—	—	13	—	—	—	—
RESUMO					RESUMO					RESUMO					RESUMO				
Ø	Kg/m	PESO(Kg)			Ø	Kg/m	PESO(Kg)			Ø	Kg/m	PESO(Kg)			Ø	Kg/m	PESO(Kg)		
8,0	0,393	72			8,0	0,393	61			8,0	0,393	61			8,0	0,393	72		
12,0	0,988	122			12,5	0,988	156			12,5	0,988	156			12,0	0,988	122		
16,0	1,570	104			16,0	1,570	21			16,0	1,570	21			16,0	1,570	104		
TOTAL= 298 Kg					TOTAL= 238 Kg					TOTAL= 238 Kg					TOTAL= 298 Kg				

750 ≤ h ≤ 1000					1000 ≤ h ≤ 1250					1250 ≤ h ≤ 1500				
$\bar{f}s \geq 0,25$ MPa					$\bar{f}s \geq 0,29$ MPa					$\bar{f}s \geq 0,34$ MPa				
N	Ø	Q	COMP	ESP.	N	Ø	Q	COMP	ESP.	N	Ø	Q	COMP	ESP.
1	—	—	—	—	1	—	—	—	—	1	—	—	—	—
2	8,0	20	140	c/20	2	8,0	20	140	c/20	2	—	—	—	—
3	—	—	—	—	3	—	—	—	—	3	10,0	16	370	c/25
4	16,0	9	320	c/11	4	20,0	7	320	c/13	4	20,0	7	320	c/13
5	16,0	12	CORR	—	5	16,0	12	CORR	—	5	16,0	12	CORR	—
6	16,0	10	320	c/10	6	20,0	8	320	c/12	6	20,0	8	320	c/12
7	8,0	112	CORR	c/20	7	8,0	112	CORR	c/20	7	10,0	88	CORR	c/25
8	12,5	10	604	c/20	8	16,0	8	604	c/30	8	16,0	8	614	c/24
9	12,5	20	320	c/20	9	16,0	16	320	c/30	9	16,0	16	320	c/24
10	8,0	16	365	c/12	10	8,0	16	365	c/12	10	10,0	12	375	c/15
11	—	—	—	—	11	—	—	—	—	11	—	—	—	—
12	—	—	—	—	12	—	—	—	—	12	—	—	—	—
13	—	—	—	—	13	—	—	—	—	13	—	—	—	—
RESUMO					RESUMO					RESUMO				
Ø	Kg/m	PESO(Kg)			Ø	Kg/m	PESO(Kg)			Ø	Kg/m	PESO(Kg)		
8,0	0,393	83			8,0	0,393	83			10,0	0,624	105		
12,5	0,988	123			16,0	1,570	177			16,0	1,570	179		
16,0	1,570	117			20,0	2,480	119			20,0	2,480	119		
TOTAL= 323 Kg					TOTAL= 379 Kg					TOTAL= 403 Kg				

SEÇÃO TRANSVERSAL



NOTA:

1)- VER NOTAS E COMPLEMENTOS DESTA, NA FOLHA Nº 161

Revisão	Descrição	Data	Aprov.	Aut.
0	Emissão inicial – Minuta do Projeto Executivo	19/10/06	NK	CM

Aprovação	ECOPLAN CEHAB	Autorização	ECOPLAN CEHAB
Elaboração: Luciano Santarém	Verificação: Jorge M. Basler	Revisão 0	Referência Ecoplan: –

ecoplan ENGENHARIA

S.D.U. COMPANHIA ESTADUAL DE HABITAÇÃO E OBRAS CEHAB

ESCALAS: Ferrovia: Transnordestina
Trecho : Parnamirim – Araripina (112,6 km)
Lote : 3

DATA: OUT/06

PROJETO DE DRENAGEM

Bueiros Simples Celulares de Concreto Armaduras do Corpo - 3,00x3,00

FOLHA/TOTAL D–79